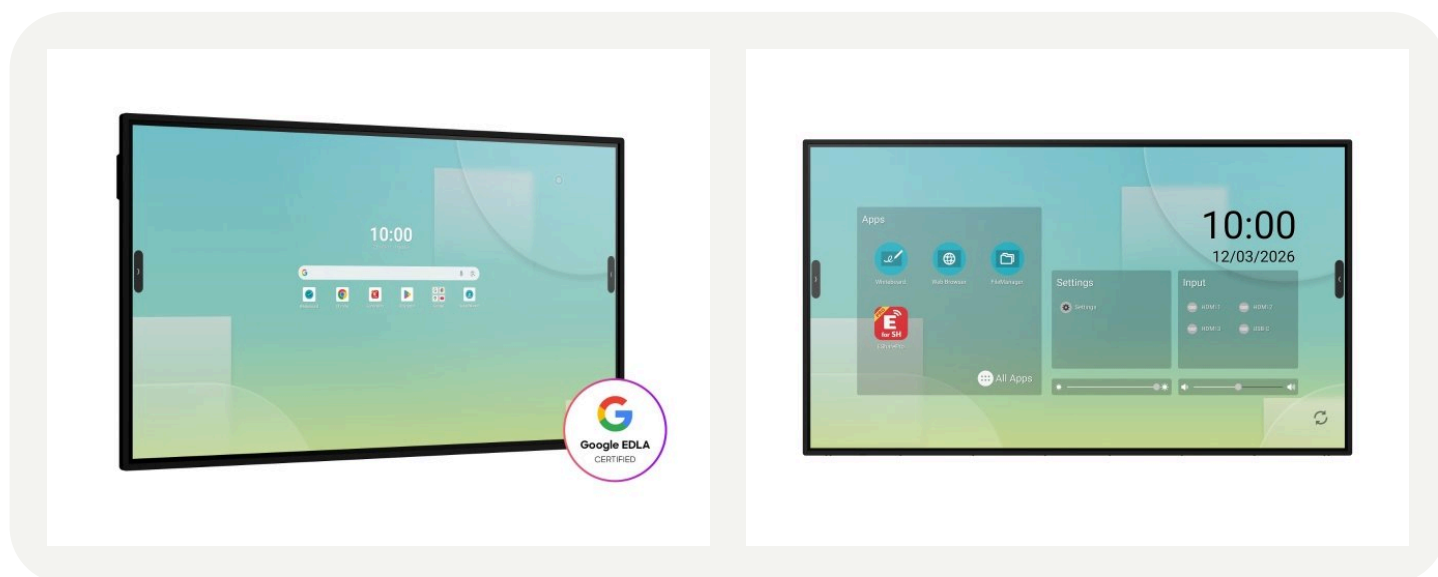


LCD 86" Infrared Touch Display

Sharp LB863-WIFI



Flexible collaboration for workplaces and learning environments

Designed for professional collaboration and engaging interactive experiences, the Sharp LB3 Series combines powerful Android performance with flexible connectivity and highly responsive touch interaction. Featuring an Android 14 System on Chip with Google EDLA certification, the display provides secure access to the Google Play Store and seamless integration with Google Workspace apps for efficient teamwork in meeting rooms and classrooms.

The Sharp LB3 Series enhances collaboration with a natural Pen-on-Paper writing experience, built-in whiteboard and wireless screen sharing via EShare. A single USB-C connection supports BYOM workflows and up to 100W power delivery, while the Wi-Fi dongle provides wireless network capability for greater installation flexibility.

With its high brightness panel, anti-glare coating and zero-bonded glass, content remains clear and readable even in bright environments. Multiple user interface options, extensive customisation features and a clean narrow-bezel design make the LB3 Series a versatile solution for corporate meeting spaces, higher education and interactive signage applications.

Benefits

Flexible and customisable user experience – Multiple user interface options including Google EDLA Home, Sharp Launcher and Android Hide allow organisations to tailor the display for collaboration, education or touch signage use cases.

Natural Pen-on-Paper writing – Highly responsive infrared touch technology with dual-tip passive pens and Windows Ink support delivers an intuitive and accurate writing experience for brainstorming and collaboration.

Versatile installation and connectivity – Clean narrow-bezel design supporting portrait and tilted installations (65°/75°), OPS slot expansion, HDMI-out with MST support via USB-C for multi-screen setups and a Wi-Fi dongle for flexible wireless network connectivity.

Secure and future-ready platform – Android 14 SoC with Google EDLA certification, regular OTA updates and advanced security features such as IEEE 802.1X ensure a reliable, secure and easily manageable collaboration environment.

Seamless collaboration workflows – USB-C connectivity enables simple BYOM meetings with video, data, touch and up to 100W charging through a single cable, while EShare allows wireless screen sharing from personal devices.

Specifications

Product Information

Product Name

Sharp LB863-WIFI

Model

PN-LB863-WIFI

Product Group

LCD 86" Infrared Touch Display

Order Code

PNLB863-WIFIB

Display

Panel Technology

IPS with Direct LED backlights

Screen Size [inch/cm]

86 / 217.4

Aspect Ratio

16:9

Brightness (without glass) [cd/m²]

500

Contrast Ratio (typ.)

1500:1

Viewing Angle [°]

178 horizontal / 178 vertical (typ. at contrast ratio 10:1)

Colour Depth [bn]

1.07 (8bit + FRC)

Response Time (typ.) [ms]

8 (grey-to-grey)

Panel Refresh Rate [Hz]

60

Haze Level [%]

Pro (25)

Supported Orientation

Landscape

Touch

Touch Technology

Infrared

Number of Touches

Real multi-touch up to 40 touches

Touch Method

Finger; Gloves; Stylus dual pen tip (2.6mm/6.8mm)

Supported Operating System

Android; Linux; Mac OS (single touch); Raspberry Pi; Windows

Data Interface

USB 2.0 (full speed) HID; USB powered, plug & play

Accuracy [mm]

+/- 1

Windows Ink

Yes

Palm Rejection

Yes

Protective Glass

Type

Thermal-tempered, anti-glare coating; Zero Bonding

Thickness [mm]

3.2

Hardness [H]

9

Resolution

Native Resolution

3840 x 2160

Supported Resolutions

1024 x 768;	1440 x 900;	4096 x 2160;
1280 x 1024;	1680 x 1050;	640 x 480;
1280 x 720;	1920 x 1080;	720 x 400;
1280 x 960;	3840 x 2160;	800 x 600

Synchronisation Rate

Horizontal Frequency [kHz]

31.5 - 135

Vertical Frequency [Hz]

24 - 70

Connectivity

HDMI IN 1

Video Input; UHD (60 Hz) HDCP (2.3); Audio Input; CEC

HDMI IN 2

Video Input; UHD (60 Hz) HDCP (2.3); Audio Input; CEC

HDMI IN 3

ARC; Video Input; UHD (60 Hz) HDCP (2.3); Audio Input; CEC

HDMI OUT

Internal SoC content: FHD (60 Hz) HDCP (2.2); UHD (60 Hz); Video Output; Audio Output; Loop Through: HDMI IN 1/2/3, USB-C (MST), OPS, Android SoC

USB-A 1

USB (3.0); Peripherals; USB Storage; Auto Switch (Android SoC, OPS, PC)

USB-A 2

USB (3.0); Peripherals; USB Storage; Auto Switch (Android SoC, OPS, PC)

USB-A 3

USB (2.0); Peripherals; USB Storage; Auto Switch (Android SoC, OPS, PC)

USB-A (Service)

Wireless Adapter; USB 2.0; Service

USB-C 1

Touch Signal; Video Input; UHD (60 Hz); DP alt. 1.4; HDCP (2.3); Audio Input; USB 2.0 / 3.0; 100 W

USB-C 2

USB 3.0; 7.5 W; Peripherals; Auto Switch (Android SoC, OPS, PC)

USB-B 1

Touch Signal; USB (3.0)

Audio Output (3.5 mm)

Audio Output; Line Out

LAN 1

100 MBit/s

LAN 2

Loop Through: LAN 1, RS-232C, IR; 100 MBit/s

RS-232C

9600 bps

Remote In (3.5 mm)

Eco Sensor (IR-Extender, Ambient and Presence)

Input Detect

Custom; Last; First

PiP / PbP

(TBD)-Split

Open Modular Intelligence

OPS Slot

Slot Technology: Open pluggable specification (NEC / Intel OPS standard)

Sensors

Ambient Light Sensor

Integrated, triggered actions programmable

Human Sensor

optional via Eco Sensor (KTES1)

Electrical

Power Consumption [W]

245 shipping

Power Savings Mode [W]

< 0.5 (ECO Standby); < 2 (Networked Standby)

Power Management

VESA DPMS

Power Supply

100-240 V AC; 50/60 Hz

Environmental Conditions

Operating Temperature [°C]

+5 to +35

Operating Humidity [%]

20 to 80

Storage Humidity [%]

10 to 80

Storage Temperature [°C]

-20 to 60

Mechanical

Dimensions (W x H x D) [mm]

Without stand: 1,954 x 1,125 x 87

Weight [kg]

60

Bezel Width [mm]

16 (symmetrical)

VESA Mounting [mm]

800 x 600 (FDMI); M8

Packaging Dimensions (W x H x D) [mm]

2,135 x 1,245 x 185

Packaging Weight [kg]

73

Material

Aluminum alloy (front side); metal (back side)

Embedded Computing

System Version

Android 14

CPU

Arm Cortex A53x4 2 GHz (octo-core); Arm Cortex A73x4 2.3 GHz

System Memory

8G RAM

Internal Storage

64GB ROM

Android Features

App side loading; Application lock; Enterprise Device Licensing Agreement (Google EDLA certified); Hide Android SoC; Hide compass and side bar; Room Reset

Built-in Applications

File Manager; Google Play Store; Input Select; Multiple Google Apps; PDF Viewer; Setting; Web Browser; Whiteboard; Wireless Screen Sharing - E-Share

Built-in Tools

Annotation overlay mode; Compass for shortcut button; Voting Kit

Bluetooth

Bluetooth

5.3 compliant: A2DP; AVRCP; GATT; HID

Wireless LAN

WLAN

IEEE802.11 a/b/g/n/ac/ax compliant; WPA/WPA2/WPA3 Enterprise, Access Point

Available Options

Accessories

Eco Sensor (KTES1); Soundbar (PN-ZCMS1); Trolley (EVER 350 Mobile Motor); USB-C cable (USB-C 5M; USB-C 7M); Wall mount (SF680P)

OPS Slot

Recommended: OPS Enterprise Pro, OPS Enterprise Ultra

Regulatory

Safety and Ergonomics

CE; EMC Class B; RoHS; UKCA

Pixel Failure Class

ISO 9241-307, Class 1

Green Features

Energy Efficiency

Ambient light sensor; Carbon savings meter; ECOMode; LED backlight

Ecological Standards

EnergyStar 8.0

3rd Party Certifications

Google

Enterprise Device Licensing Agreement (Google EDLA certified)

Q-Sys

Q-Sys Plug-in

Additional Features

Special Characteristics

CEC Support; Clone Settings; HDMI ARC; NaViSet Administrator 2 - free download; OSD rotation for portrait mode; Powered USB Port (100 W); Scheduler

Audio

2x 15 Watt

Shipping Content

1x 300 cm USB Cable; 2 x Passive Stylus; 2x AAA batteries; Blank Sticker; Bracket for Camera; Cable Clamps; Display; Power Cable; Remote Control; Setup Manual; Wireless Adapter

Warranty

3 years warranty incl. backlight; optional 4. + 5. year warranty extension¹

Operating Hours

18/7

External Control

HDMI CEC; Scheduled Timer

Remote Management

NaViSet Administrator 2

Security

Disable HW Buttons; Disable IR Functionality; Disable USB Ports;
IEEE802.1X (Wi-Fi; LAN)

¹ please refer to terms and conditions of warranty extensions



RoHS



CE

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